Suresh C Tyagi

List of Publications by Year in Descending Order

316 papers	15,683 citations	53 h-index	119 g-index
326 ext. papers	17,421 ext. citations	3.5 avg, IF	6.38 L-index

#	Paper	IF	Citations
316	Mechanism of Blood-Heart-Barrier Leakage: Implications for COVID-19 Induced Cardiovascular Injury.. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
315	Remote Hind-Limb Ischemia Mechanism of Preserved Ejection Fraction During Heart Failure. *Frontiers in Physiology*, **2021**, 12, 745328	4.6	2
314	Rebuilding Microbiome for Mitigating Traumatic Brain Injury: Importance of Restructuring the Gut-Microbiome-Brain Axis. *Molecular Neurobiology*, **2021**, 58, 3614-3627	6.2	3
313	High Fat Diet Dysbiotic Mechanism of Decreased Gingival Blood Flow. *Frontiers in Physiology*, **2021**, 12, 625780	4.6	1
312	Sustained Inhibition of NF-B Activity Mitigates Retinal Vasculopathy in Diabetes. *American Journal of Pathology*, **2021**, 191, 947-964	5.8	3
311	Protecting the aging eye with hydrogen sulfide. *Canadian Journal of Physiology and Pharmacology*, **2021**, 99, 161-170	2.4	0
310	Hyperhomocysteinemia: an instigating factor for periodontal disease. *Canadian Journal of Physiology and Pharmacology*, **2021**, 99, 115-123	2.4	5
309	Gut microbiota and the periodontal disease: role of hyperhomocysteinemia. *Canadian Journal of Physiology and Pharmacology*, **2021**, 99, 9-17	2.4	5
308	Epigenetic memory: gene writer, eraser and homocysteine. *Molecular and Cellular Biochemistry*, **2021**, 476, 507-512	4.2	3
307	Regulation of the parental gene GRM4 by circGrm4 RNA transcript and glutamate-mediated neurovascular toxicity in eyes. *Molecular and Cellular Biochemistry*, **2021**, 476, 663-673	4.2	3
306	High-methionine diet in skeletal muscle remodeling: epigenetic mechanism of homocysteine-mediated growth retardation. *Canadian Journal of Physiology and Pharmacology*, **2021**, 99, 56-63	2.4	1
305	Multi-organ damage by covid-19: congestive (cardio-pulmonary) heart failure, and blood-heart barrier leakage. *Molecular and Cellular Biochemistry*, **2021**, 476, 1891-1895	4.2	7
304	Impaired Folate-Mediated One-Carbon Metabolism in Type 2 Diabetes, Late-Onset Alzheimer's Disease and Long COVID.. *Medicina (Lithuania)*, **2021**, 58,	3.1	3
303	The role of gut microbiota in bone homeostasis. *Bone*, **2020**, 135, 115317	4.7	28
302	The Physiology of Sphincter and Dilator Muscles in the Regulation of Intraocular Pressure. *FASEB Journal*, **2020**, 34, 1-1	0.9	
301	Probiotic Mitigates High Fat Diet-Induced Mammary Gland Inflammation and Matrix Remodeling. *FASEB Journal*, **2020**, 34, 1-1	0.9	
300	Dysbiotic 1-carbon metabolism in cardiac muscle remodeling. *Journal of Cellular Physiology*, **2020**, 235, 2590-2598	7	13

299	Cardioprotective effects of high-intensity interval training are mediated through microRNA regulation of mitochondrial and oxidative stress pathways. *Journal of Cellular Physiology*, **2020**, 235, 5229-5240	7	5
298	Garlic Derived Diallyl Trisulfide in Experimental Metabolic Syndrome: Metabolic Effects and Cardioprotective Role. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11
297	Hidradenitis Suppurativa and 1-Carbon Metabolism: Role of Gut Microbiome, Matrix Metalloproteinases, and Hyperhomocysteinemia. *Frontiers in Immunology*, **2020**, 11, 1730	8.4	2
296	Genes and genetics in hyperhomocysteinemia and the "1-carbon metabolism": implications for retinal structure and eye functions. *Canadian Journal of Physiology and Pharmacology*, **2020**, 98, 51-60	2.4	9
295	Epigenetics, 1-Carbon Metabolism, and Homocysteine During Dysbiosis. *Frontiers in Physiology*, **2020**, 11, 617953	4.6	2
294	Hyperhomocysteinemia induced endothelial progenitor cells dysfunction through hyper-methylation of CBS promoter. *Biochemical and Biophysical Research Communications*, **2019**, 510, 135-141	3.4	13
293	Exosomes: cell-created drug delivery systems. *Molecular and Cellular Biochemistry*, **2019**, 459, 1-6	4.2	53
292	Hydrogen sulfide inhibits Ca-induced mitochondrial permeability transition pore opening in type-1 diabetes. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 317, E269-E283	6	16
291	Hydrogen sulfide attenuates homocysteine-induced osteoblast dysfunction by inhibiting mitochondrial toxicity. *Journal of Cellular Physiology*, **2019**, 234, 18602-18614	7	14
290	Role of hydrogen sulfide in the musculoskeletal system. *Bone*, **2019**, 124, 33-39	4.7	10
289	Dysregulation of 1-carbon metabolism and muscle atrophy: potential roles of forkhead box O proteins and PPARγ co-activator-1α. *Canadian Journal of Physiology and Pharmacology*, **2019**, 97, 1013-1017	2.4	1
288	The cardioprotective effects of diallyl trisulfide on diabetic rats with ex vivo induced ischemia/reperfusion injury. *Molecular and Cellular Biochemistry*, **2019**, 460, 151-164	4.2	14
287	Effect of gene knockout on retinal vascular form and function. *Physiological Genomics*, **2019**, 51, 613-622	3.6	8
286	Hydrogen sulfide intervention in cystathionine-γ-synthase mutant mouse helps restore ocular homeostasis. *International Journal of Ophthalmology*, **2019**, 12, 754-764	1.4	15
285	Probiotic Supplementation Mitigates Vascular Remodeling in the Retina. *FASEB Journal*, **2019**, 33, 484.11	0.9	1
284	Probiotics Ameliorate Gut-Microbial Dysbiosis, Intestinal Permeability, Systemic Inflammation, and Skeletal Muscle Dysfunction in Cystathionine-γ-synthase-Deficient Mice. *FASEB Journal*, **2019**, 33, 701.16	0.9	
283	Hyperhomocysteinemia and the effects of Lactobacillus rhamnosus GG on cardiac functions in CBS+/− mice. *FASEB Journal*, **2019**, 33, 531.7	0.9	
282	Remote ischemic conditioning as a cytoprotective strategy in vasculopathies during hyperhomocysteinemia: An emerging research perspective. *Journal of Cellular Biochemistry*, **2019**, 120, 77-92	4.7	10

281	TFAM overexpression diminishes skeletal muscle atrophy after hindlimb suspension in mice. *Archives of Biochemistry and Biophysics*, **2019**, 666, 138-147	4.1	2
280	Circular RNAs constitute an inherent gene regulatory axis in the mammalian eye and brain. *Canadian Journal of Physiology and Pharmacology*, **2019**, 97, 463-472	2.4	11
279	Restoration of skeletal muscle homeostasis by hydrogen sulfide during hyperhomocysteinemia-mediated oxidative/ER stress condition. *Canadian Journal of Physiology and Pharmacology*, **2019**, 97, 441-456	2.4	11
278	TFAM overexpression reduces pathological cardiac remodeling. *Molecular and Cellular Biochemistry*, **2019**, 454, 139-152	4.2	12
277	Expression Analysis of the Circular RNA Molecules in the Human Retinal Cells Treated with Homocysteine. *Current Eye Research*, **2019**, 44, 287-293	2.9	9
276	NAD : A big player in cardiac and skeletal muscle remodeling and aging. *Journal of Cellular Physiology*, **2018**, 233, 1895-1896	7	6
275	Exercise preconditioning diminishes skeletal muscle atrophy after hindlimb suspension in mice. *Journal of Applied Physiology*, **2018**, 125, 999-1010	3.7	12
274	Hydrogen sulfide alleviates hyperhomocysteinemia-mediated skeletal muscle atrophy via mitigation of oxidative and endoplasmic reticulum stress injury. *American Journal of Physiology - Cell Physiology*, **2018**, 315, C609-C622	5.4	34
273	Hydrogen sulfide epigenetically mitigates bone loss through OPG/RANKL regulation during hyperhomocysteinemia in mice. *Bone*, **2018**, 114, 90-108	4.7	44
272	Connecting homocysteine and obesity through pyroptosis, gut microbiome, epigenetics, peroxisome proliferator-activated receptor □and zinc finger protein 407. *Canadian Journal of Physiology and Pharmacology*, **2018**, 96, 971-976	2.4	11
271	A hypothesis for treating inflammation and oxidative stress with hydrogen sulfide during age-related macular degeneration. *International Journal of Ophthalmology*, **2018**, 11, 881-887	1.4	17
270	Hydrogen Sulfide Improves Hyperhomocysteinemia-Mediated Impairment of Angiogenesis in Skeletal Muscle. *FASEB Journal*, **2018**, 32, 573.2	0.9	
269	Hyperhomocysteinemia-Mediated Endoplasmic Reticulum Stress in Skeletal Muscle Dysfunction via JNK/pro-inflammatory Pathway. *FASEB Journal*, **2018**, 32, 538.4	0.9	
268	Role of Hydrogen Sulfide (H2S) on Homocysteine Mediated Glutamate Excitotoxicity, Endoplasmic Reticulum Stress and Pyroptosis in Retina. *FASEB Journal*, **2018**, 32, 748.5	0.9	3
267	Mechanisms of TFAM-mediated cardiomyocyte protection. *Canadian Journal of Physiology and Pharmacology*, **2018**, 96, 173-181	2.4	12
266	Genes and genetics in eye diseases: a genomic medicine approach for investigating hereditary and inflammatory ocular disorders. *International Journal of Ophthalmology*, **2018**, 11, 117-134	1.4	15
265	Exercise mitigates the effects of hyperhomocysteinemia on adverse muscle remodeling. *Physiological Reports*, **2018**, 6, e13637	2.6	4
264	Remodeling of Retinal Architecture in Diabetic Retinopathy: Disruption of Ocular Physiology and Visual Functions by Inflammatory Gene Products and Pyroptosis. *Frontiers in Physiology*, **2018**, 9, 1268	4.6	27

263	Hydrogen Sulfide Promotes Bone Homeostasis by Balancing Inflammatory Cytokine Signaling in CBS-Deficient Mice through an Epigenetic Mechanism. *Scientific Reports*, **2018**, 8, 15226	4.9	30
262	Hydrogen sulfide improves postischemic neoangiogenesis in the hind limb of cystathionine-□synthase mutant mice via PPAR-□/VEGF axis. *Physiological Reports*, **2018**, 6, e13858	2.6	23
261	Role of Fibrinogen in Vascular Cognitive Impairment in Traumatic Brain Injury **2018**,		2
260	Circular RNAs profiling in the cystathionine-□synthase mutant mouse reveals novel gene targets for hyperhomocysteinemia induced ocular disorders. *Experimental Eye Research*, **2018**, 174, 80-92	3.7	17
259	Interactions of hyperhomocysteinemia and T cell immunity in causation of hypertension. *Canadian Journal of Physiology and Pharmacology*, **2017**, 95, 239-246	2.4	8
258	Browning of White Fat: Novel Insight Into Factors, Mechanisms, and Therapeutics. *Journal of Cellular Physiology*, **2017**, 232, 61-8	7	105
257	Dementia-like pathology in type-2 diabetes: A novel microRNA mechanism. *Molecular and Cellular Neurosciences*, **2017**, 80, 58-65	4.8	25
256	Cross-talk of MicroRNA and hydrogen sulfide: A novel therapeutic approach for bone diseases. *Biomedicine and Pharmacotherapy*, **2017**, 92, 1073-1084	7.5	23
255	Mdivi-1 induced acute changes in the angiogenic profile after ischemia-reperfusion injury in female mice. *Physiological Reports*, **2017**, 5, e13298	2.6	19
254	Toll-like receptor 4 mediates vascular remodeling in hyperhomocysteinemia. *Molecular and Cellular Biochemistry*, **2017**, 433, 177-194	4.2	3
253	Dysbiosis and Disease: Many Unknown Ends, Is It Time to Formulate Guidelines for Dysbiosis Research?. *Journal of Cellular Physiology*, **2017**, 232, 2929-2930	7	3
252	Hypermethylation: Causes and Consequences in Skeletal Muscle Myopathy. *Journal of Cellular Biochemistry*, **2017**, 118, 2108-2117	4.7	15
251	The Role of Exercise and TFAM in Preventing Skeletal Muscle Atrophy. *Journal of Cellular Physiology* , **2017**, 232, 2348-2358	7	66
250	Ablation of toll-like receptor 4 mitigates cardiac mitochondrial dysfunction in hyperhomocysteinemia. *Canadian Journal of Physiology and Pharmacology*, **2017**, 95, 1369-1375	2.4	5
249	Toll-like Receptor 4 Deficiency Reduces Oxidative Stress and Macrophage Mediated Inflammation in Hypertensive Kidney. *Scientific Reports*, **2017**, 7, 6349	4.9	59
248	Hyperhomocysteinemia and Age-related Macular Degeneration: Role of Inflammatory Mediators and Pyroptosis; A Proposal. *Medical Hypotheses*, **2017**, 105, 17-21	3.8	11
247	Ablation of Toll-like receptor 4 mitigates central blood pressure response during hyperhomocysteinemia. *Journal of Hypertension*, **2017**, 35, 2226-2237	1.9	3
246	Homocysteine as a Pathological Biomarker for Bone Disease. *Journal of Cellular Physiology*, **2017**, 232, 2704-2709	7	39

245	Localization of Fibrinogen in the Vasculo-Astrocyte Interface after Cortical Contusion Injury in Mice. *Brain Sciences*, **2017**, 7,	3.4	16
244	Homocysteine mediates transcriptional changes of the inflammatory pathway signature genes in human retinal pigment epithelial cells. *International Journal of Ophthalmology*, **2017**, 10, 696-704	1.4	13
243	Metalloproteinases as mediators of inflammation and the eyes: molecular genetic underpinnings governing ocular pathophysiology. *International Journal of Ophthalmology*, **2017**, 10, 1308-1318	1.4	15
242	Post-menopausal breast cancer: from estrogen to androgen receptor. *Oncotarget*, **2017**, 8, 102739-102758	5.8	18
241	Epigenetic silencing of TIMP4 in heart failure. *Journal of Cellular and Molecular Medicine*, **2016**, 20, 2089-2101	5.6	11
240	Homocysteine, Alcoholism, and Its Potential Epigenetic Mechanism. *Alcoholism: Clinical and Experimental Research*, **2016**, 40, 2474-2481	3.7	34
239	High Methionine Diet Poses Cardiac Threat: A Molecular Insight. *Journal of Cellular Physiology*, **2016** , 231, 1554-61	7	19
238	Inhibition of MMP-9 attenuates hypertensive cerebrovascular dysfunction in Dahl salt-sensitive rats. *Molecular and Cellular Biochemistry*, **2016**, 413, 25-35	4.2	12
237	Moderate intensity exercise prevents diabetic cardiomyopathy associated contractile dysfunction through restoration of mitochondrial function and connexin 43 levels in db/db mice. *Journal of Molecular and Cellular Cardiology*, **2016**, 92, 163-173	5.8	52
236	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
235	Hyperhomocysteinemia Alters Sinoatrial and Atrioventricular Nodal Function: Role of Magnesium in Attenuating These Effects. *Cell Biochemistry and Biophysics*, **2016**, 74, 59-65	3.2	5
234	Regulation and involvement of matrix metalloproteinases in vascular diseases. *Frontiers in Bioscience - Landmark*, **2016**, 21, 89-118	2.8	47
233	Ablation of Matrix Metalloproteinase-9 Prevents Cardiomyocytes Contractile Dysfunction in Diabetics. *Frontiers in Physiology*, **2016**, 7, 93	4.6	17
232	Cerebrovascular disorders caused by hyperfibrinogenaemia. *Journal of Physiology*, **2016**, 594, 5941-5957	3.9	11
231	Toll-like receptor 4 mutation suppresses hyperhomocysteinemia-induced hypertension. *American Journal of Physiology - Cell Physiology*, **2016**, 311, C596-C606	5.4	24
230	Mitochondrial pathways to cardiac recovery: TFAM. *Heart Failure Reviews*, **2016**, 21, 499-517	5	52
229	Homocysteine and hydrogen sulfide in epigenetic, metabolic and microbiota related renovascular hypertension. *Pharmacological Research*, **2016**, 113, 300-312	10.2	40
228	Curcumin-loaded embryonic stem cell exosomes restored neurovascular unit following ischemia-reperfusion injury. *International Journal of Biochemistry and Cell Biology*, **2016**, 79, 360-369	5.6	131

227	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. *Annals of the New York Academy of Sciences*, **2016**, 1363, 138-54	6.5	27
226	Epigenetic revival of a dead cardiomyocyte through mitochondrial interventions. *Biomolecular Concepts*, **2015**, 6, 303-19	3.7	4
225	Hyperhomocysteinemia: a missing link to dysfunctional HDL via paraoxanase-1. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 755-63	2.4	7
224	A possible molecular mechanism of hearing loss during cerebral ischemia in mice. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 505-16	2.4	8
223	Mechanisms of hyperhomocysteinemia induced skeletal muscle myopathy after ischemia in the CBS-/+ mouse model. *International Journal of Molecular Sciences*, **2015**, 16, 1252-65	6.3	19
222	Cardiac tissue inhibitor of matrix metalloprotease 4 dictates cardiomyocyte contractility and differentiation of embryonic stem cells into cardiomyocytes: Road to therapy. *International Journal of Cardiology*, **2015**, 184, 350-363	3.2	9
221	Cardiosome mediated regulation of MMP9 in diabetic heart: role of mir29b and mir455 in exercise. *Journal of Cellular and Molecular Medicine*, **2015**, 19, 2153-61	5.6	109
220	Resuscitation of a dead cardiomyocyte. *Heart Failure Reviews*, **2015**, 20, 709-19	5	4
219	Hyperhomocysteinemia inhibits satellite cell regenerative capacity through p38 alpha/beta MAPK signaling. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H325-34	5.2	20
218	Ablation of matrix metalloproteinase-9 gene decreases cerebrovascular permeability and fibrinogen deposition post traumatic brain injury in mice. *Metabolic Brain Disease*, **2015**, 30, 411-26	3.9	46
217	Effect of MMPs on Cardiovasculature and Blood Flow **2015**, 467-478		
216	Matrix metalloproteinases in atherosclerosis: role of nitric oxide, hydrogen sulfide, homocysteine, and polymorphisms. *Vascular Health and Risk Management*, **2015**, 11, 173-83	4.4	80
215	Exercise ameliorates high fat diet induced cardiac dysfunction by increasing interleukin 10. *Frontiers in Physiology*, **2015**, 6, 124	4.6	30
214	Hydrogen Sulfide Epigenetically Attenuates Homocysteine-Induced Mitochondrial Toxicity Mediated Through NMDA Receptor in Mouse Brain Endothelial (bEnd3) Cells. *Journal of Cellular Physiology*, **2015**, 230, 378-94	7	64
213	Homocysteine elicits an M1 phenotype in murine macrophages through an EMMPRIN-mediated pathway. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 577-84	2.4	9
212	Hyperhomocysteinemia associated skeletal muscle weakness involves mitochondrial dysfunction and epigenetic modifications. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2015**, 1852, 732-41	6.9	47
211	Role of hydrogen sulfide in skeletal muscle biology and metabolism. *Nitric Oxide - Biology and Chemistry*, **2015**, 46, 66-71	5	36
210	Increased Cerebrovascular Protein Transcytosis and Amyloid-□Deposition during Hyperfibrinogenemia Alter Short-term Memory. *FASEB Journal*, **2015**, 29, 673.1	0.9	

209	A Link between Mitophagy and Apoptosis in Endothelial Cells: Exosomal Delivery of Mfn-2 siRNA. *FASEB Journal*, **2015**, 29, 974.13	0.9	1
208	Homocysteine Elicits an Inflammatory Profile in Murine Macrophages Through an EMMPRIN Mediated Pathway. *FASEB Journal*, **2015**, 29, 634.7	0.9	
207	Exercise Mitigates Aberrant Mitophagy and Cardiovascular Remodeling in Diabetes. *FASEB Journal*, **2015**, 29, 821.8	0.9	
206	Exercise Mitigates Hyperhomocysteinemia Induced Vascular Dysfunction and Adverse Skeletal Muscle Remodeling. *FASEB Journal*, **2015**, 29, 1055.31	0.9	
205	Taming the Promoter: Regulation of Tissue Inhibitor of Matrix Metalloprotease 4 in Heart Failure. *FASEB Journal*, **2015**, 29, 974.9	0.9	
204	Cardiosomes and Cardiac Remodeling: Role of Exercise. *FASEB Journal*, **2015**, 29, 1038.4	0.9	
203	Hyperhomocysteinemia (HHcy) Causes Mitochondrial Dysfunction and Epigenetic Modifications Leading to Skeletal Muscle Weakness. *FASEB Journal*, **2015**, 29, 1050.4	0.9	
202	Epigenetic mechanisms underlying cardiac degeneration and regeneration. *International Journal of Cardiology*, **2014**, 173, 1-11	3.2	39
201	Mitochondrial mitophagy in mesenteric artery remodeling in hyperhomocysteinemia. *Physiological Reports*, **2014**, 2, e00283	2.6	20
200	Role of microRNA29b in blood-brain barrier dysfunction during hyperhomocysteinemia: an epigenetic mechanism. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 1212-22	7.3	52
199	Hyperhomocysteinemia attenuates angiogenesis through reduction of HIF-1α and PGC-1α levels in muscle fibers during hindlimb ischemia. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1116-27	5.2	20
198	Differential regulation of DNA methylation versus histone acetylation in cardiomyocytes during HHcy in vitro and in vivo: an epigenetic mechanism. *Physiological Genomics*, **2014**, 46, 245-55	3.6	41
197	Elevated level of fibrinogen increases caveolae formation; role of matrix metalloproteinase-9. *Cell Biochemistry and Biophysics*, **2014**, 69, 283-94	3.2	16
196	Exercise and nutrition in myocardial matrix metabolism, remodeling, regeneration, epigenetics, microcirculation, and muscle. *Canadian Journal of Physiology and Pharmacology*, **2014**, 92, 521-3	2.4	9
195	Homocysteine in renovascular complications: hydrogen sulfide is a modulator and plausible anaerobic ATP generator. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 27-37	5	13
194	Dysregulation of Mfn2 and Drp-1 proteins in heart failure. *Canadian Journal of Physiology and Pharmacology*, **2014**, 92, 583-91	2.4	48
193	Exercise mitigates the adverse effects of hyperhomocysteinemia on macrophages, MMP-9, skeletal muscle, and white adipocytes. *Canadian Journal of Physiology and Pharmacology*, **2014**, 92, 575-82	2.4	11
192	Ablation of MMP9 gene ameliorates paracellular permeability and fibrinogen-amyloid beta complex formation during hyperhomocysteinemia. *Journal of Cerebral Blood Flow and Metabolism*, **2014**, 34, 1472-82	7.3	34

191	Epigenetic regulation of aortic remodeling in hyperhomocysteinemia. *FASEB Journal*, **2014**, 28, 3411-22	0.9	23
190	Anti-Parstatin Promotes Angiogenesis and Ameliorates Left Ventricular Dysfunction during Pressure Overload. *International Journal of Biomedical Science*, **2014**, 10, 1-7		2
189	Cardiac matrix: a clue for future therapy. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 2271-6	6.9	41
188	Matrix Metalloproteinase Inhibition Mitigates Renovascular Remodeling in Salt-Sensitive Hypertension. *Physiological Reports*, **2013**, 1, e00063	2.6	24
187	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. *Journal of Hypertension*, **2013**, 31, 2270-81; discussion 2281	1.9	30
186	Hyperhomocysteinemia during aortic aneurysm, a plausible role of epigenetics. *International Journal of Physiology, Pathophysiology and Pharmacology*, **2013**, 5, 32-42	3.4	14
185	Ablation of MMP-9 gene ameliorates paracellular permeability and fibrinogen-amyloid beta plaque formation during hyperhomocysteinemia. *FASEB Journal*, **2013**, 27, 709.4	0.9	
184	Hydrogen sulfide attenuates homocysteine induced neurovascular dysfunction. *FASEB Journal*, **2013**, 27, lb728	0.9	
183	Matrix Metalloproteinase Inhibition Protects Kidney from Adverse Remodeling Induced by Hypertension. *FASEB Journal*, **2013**, 27, 906.6	0.9	
182	Mitochondrial division inhibitor (Mdivi-I) ameliorates post myocardial infarction via stimulating stem cell by elevating level of MiR-499 in diabetes. *FASEB Journal*, **2013**, 27, 1151.1	0.9	
181	Epigenetic inhibition by 5 Aza 2? deoxycytidine mitigates hypertension in hyperhomocysteinemia. *FASEB Journal*, **2013**, 27, 955.9	0.9	
180	H2S Therapy Improves MMP-9 and NMDA Receptor Mediated Diabetic Renovascular Remodeling. *FASEB Journal*, **2013**, 27, 702.9	0.9	
179	Ablation of MMP9 ameliorates epigenetic modifications and mitigates diabetic cardiomyopathy. *FASEB Journal*, **2013**, 27, 1129.3	0.9	
178	Mesenteric vascular remodeling in different mouse strains. *FASEB Journal*, **2013**, 27, 916.7	0.9	
177	C3H Mice are Resistant to Hypertensive Renovascular Remodeling Due to Decreased Mitochondrial Oxidative Stress. *FASEB Journal*, **2013**, 27, 704.13	0.9	
176	Matrix metalloproteinase-9 in homocysteine-induced intestinal microvascular endothelial paracellular and transcellular permeability. *Journal of Cellular Biochemistry*, **2012**, 113, 1159-69	4.7	21
175	Autophagy and heart failure: a possible role for homocysteine. *Cell Biochemistry and Biophysics*, **2012**, 62, 1-11	3.2	19
174	Homocysteine alters cerebral microvascular integrity and causes remodeling by antagonizing GABA-A receptor. *Molecular and Cellular Biochemistry*, **2012**, 371, 89-96	4.2	19

173	Mitochondrial mitophagic mechanisms of myocardial matrix metabolism and remodelling. *Archives of Physiology and Biochemistry*, **2012**, 118, 31-42	2.2	21
172	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
171	Hydrogen sulfide mitigates cardiac remodeling during myocardial infarction via improvement of angiogenesis. *International Journal of Biological Sciences*, **2012**, 8, 430-41	11.2	80
170	Tetrahydrocurcumin ameliorates homocysteinylated cytochrome-c mediated autophagy in hyperhomocysteinemia mice after cerebral ischemia. *Journal of Molecular Neuroscience*, **2012**, 47, 128-38	3.3	52
169	Fibrinogen-induced increased pial venular permeability in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2012**, 32, 150-63	7.3	28
168	Autophagy mechanism of right ventricular remodeling in murine model of pulmonary artery constriction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2012**, 302, H688-96	5.2	46
167	Increased endogenous H2S generation by CBS, CSE, and 3MST gene therapy improves ex vivo renovascular relaxation in hyperhomocysteinemia. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C41-51	5.4	82
166	Mitochondrial division/mitophagy inhibitor (Mdivi) ameliorates pressure overload induced heart failure. *PLoS ONE*, **2012**, 7, e32388	3.7	146
165	Hyperhomocysteinemia decreases intestinal motility leading to constipation. *FASEB Journal*, **2012**, 26, 1163.6	0.9	
164	Renovascular remodeling in Angiotensin-II induced hypertension is strain dependent. *FASEB Journal*, **2012**, 26, lb809	0.9	
163	Matrix Metalloproteinase-9 in Homocysteine-Induced Intestinal Microvascular Endothelial Paracellular and Transcellular Permeability. *FASEB Journal*, **2012**, 26, 862.4	0.9	
162	Mitochondrial mechanism of right ventricular failure (RVF). *FASEB Journal*, **2012**, 26, 1127.3	0.9	
161	Mitophagy causes coronary artery endothelial dysfunction in oxidative stress dose-dependent (i.e. C57>FVB>C3H mice) manner during right ventricle failure (RVF). *FASEB Journal*, **2012**, 26, 888.10	0.9	
160	Bad to Bone: Homocysteine. *FASEB Journal*, **2012**, 26, 1143.5	0.9	
159	Epigenetic Reprogramming of Mitochondrial Dysfunction in hyperhomocysteinemia. *FASEB Journal*, **2012**, 26, 701.17	0.9	
158	Exercise Mitigates Beta-2 Adrenergic Receptor Dysfunction By Decreasing Homocysteine In Diabetes. *FASEB Journal*, **2012**, 26, 1076.2	0.9	
157	MiR-133 As An Epigenetic Regulator Of Diabetic Heart Failure. *FASEB Journal*, **2012**, 26, 1057.22	0.9	1
156	Epigenetic mechanism of atherosclerosis and hypertension in Hyperhomocysteinemia. *FASEB Journal*, **2012**, 26, 874.7	0.9	

155	Attenuation of conducted vasodilatation in the skeletal muscle during hyperhomocysteinemia. *FASEB Journal*, **2012**, 26, 1058.7	0.9	
154	Hydrogen sulfide mitigates renovascular matrix pathobiology in hyperhomocysteinemia. *FASEB Journal*, **2012**, 26, 866.4	0.9	
153	Hydrogen sulfide mitigates transition from compensatory hypertrophy to heart failure. *Journal of Applied Physiology*, **2011**, 110, 1093-100	3.7	53
152	Mesenteric vascular remodeling in hyperhomocysteinemia. *Molecular and Cellular Biochemistry*, **2011**, 348, 99-108	4.2	29
151	Homocysteine mediated decrease in bone blood flow and remodeling: role of folic acid. *Journal of Orthopaedic Research*, **2011**, 29, 1511-6	3.8	40
150	Folic acid improves acetylcholine-induced vasoconstriction of coronary vessels isolated from hyperhomocysteinemic mice: an implication to coronary vasospasm. *Journal of Cellular Physiology*, **2011**, 226, 2712-20	7	17
149	Chronic hyperhomocysteinemia causes vascular remodelling by instigating vein phenotype in artery. *Archives of Physiology and Biochemistry*, **2011**, 117, 270-82	2.2	7
148	Mechanisms of cardiovascular remodeling in hyperhomocysteinemia. *Antioxidants and Redox Signaling*, **2011**, 15, 1927-43	8.4	124
147	X-ray imaging of differential vascular density in MMP-9-/-, PAR-1-/+, hyperhomocysteinemic (CBS-/+) and diabetic (Ins2-/+) mice. *Archives of Physiology and Biochemistry*, **2011**, 117, 1-7	2.2	18
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